DATA SHEET

Alpha^e Series

Alpha^e Series

ALPHA E-F FULL RANGE LOUDSPEAKER

The AlphaE-F provides high power, full-range audio reproduction via a composite curve, folded horn loaded 18" LF driver, an exponential horn loaded 10" MF driver and a constant directivity horn loaded 3" HF driver giving 75° x 30° dispersion. Operable 2-way active with passive HF crossover for cost-effective system designs or 3-way active for ultimate performance and control, the AlphaE-F has a frequency response of 39Hz-19kHz. The AlphaE-F delivers outstanding performance as a compact, self-contained system or a flexible near or side-fill supplement to the ALPHA System.

The AlphaE Series is an extension of NEXO's acclaimed ALPHA System; modular, compact, high power loudspeakers tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, AlphaE Series components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

- High power full range system (140dB peak SPL @ 1m) with horn loaded 18" LF, 10" MF and 3" HF components.
- Medium Q, 75° x 30° dispersion, frequency response 40Hz - 19kHz.
- Configurable for active 2-way with a passive HF crossover or active 3-way operation with NX242 Digital TDcontroller ensures reliable, linear operation.
- Baltic birch cabinet and high performance honeycomb composite construction.
- Available in dark grey carpet covering or textured black paint.
- Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.
- Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.

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Alpha^e Series

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NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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PRODUCT FEATURES	
Components	LF: 1x 18" (46 cm) long excursion 6Ω driver MF: 1x 10" (25 cm) 8Ω 3" voice coil driver + Dual Ring Phase Plug, Composite Horns HF: 1x 3" titanium diaphragm ceramic driver + Coaxial Mount Waveguide
Height x Width x Depth	1200 x 689 x 754mm (47 1/4" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 98kg(209lbs) With wheelboard: 105kg(231lbs)
Connectors	2x NL8MP 8-pole SPEAKON (In & Loop Thru) Passive: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF/HF), 4+ & 4- (NC) Active: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON (to B1-18 & S2) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.

SYSTEM SPECIFICATIONS	AlphaE-F with NX242 Digital TDcontroller
Frequency Response [a]	40Hz – 19kHz ±3dB
Usable Range @-6dB [a]	38Hz – 20kHz ±6dB
Sensitivity 1W @ 1m [b]	107dB SPL Nominal
Nominal Peak SPL @ 1m [b]	LF: 142dB Peak, MF/HF: 140dB Peak
Nominal Impedence	LF: 6Ω (4.7 min) MF/HF: 8Ω (7.5 min)
Recommended Amplifiers	900 to 1400Watts LF into 6Ω, Passive MF/HF: 700 to 1000Watts; Active: 500 to 700Watts MF, 200 to 300Watts HF into 8Ω

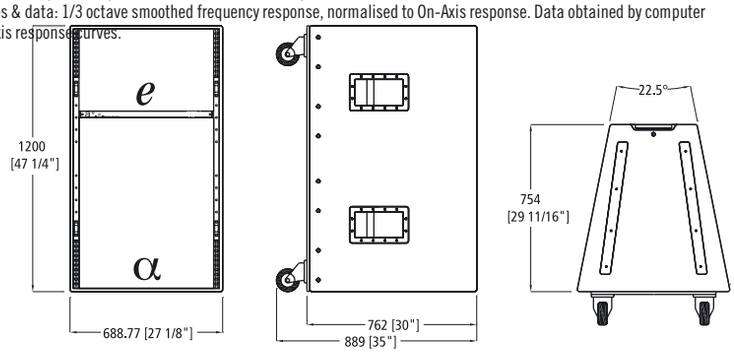
SYSTEM OPERATION	
Electronic Controller	The AlphaE-F Loudspeaker must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The AlphaE-F Loudspeaker can be used with or without the optional ALPHA S2 SubBass. Active three or four-way operation with the S2 is included in the NX242.

SHIPPING & ORDERING	
Ordering	AlphaE-F carpet finished (without wheelboard) = Ref: ALEF-C. AlphaE-F painted (without wheelboard) = Ref: ALEF-P.
Packaging	AlphaE-F is sold as a single item and and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	

Crossbow Flying System, refer to the Crossbow specs. Wheelboard= Ref: AL.WB2.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.
[b] Sensitivity & Peak SPL data : will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.
[c] Directivity curves & data: 1/3 octave smoothed frequency response, normalised to On-Axis response. Data obtained by computer processing of off axis response curves.



LIMITED WARRANTY
NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse.All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.

DATA SHEET

Alpha^e Series

ALPHA E- M MID/HI

The AlphaE-M is a high power Mid/Hi module using an exponential horn loaded 10" MF driver and a constant directivity horn loaded 2" HF driver giving 75° x 30° dispersion. Operable 2-way passive for cost-effective system designs or 2-way active for ultimate performance and control, the AlphaE-M has a frequency response of 220Hz-19kHz. Together with a B1-18 Bass, the AlphaE-M delivers outstanding performance as a compact, arrayable medium scale system or a flexible near or side-fill supplement to the ALPHA System.

The AlphaE Series is an extension of NEXO's acclaimed ALPHA System; modular, compact, high power loudspeakers tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, AlphaE Series components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

- High power Mid/Hi module (140dB peak SPL @ 1m) with horn loaded 10" MF and 3" HF components.
- Medium Q, 75° x 30° dispersion, frequency response 220Hz-19kHz.
- Configurable for passive or active 2-way operation with NX242 Digital TDcontroller ensures reliable, linear operation.
- Baltic birch cabinet and high performance honeycomb composite construction.
- Available in dark grey carpet covering or textured black paint.
- Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.
- Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.

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Alpha^e Series

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NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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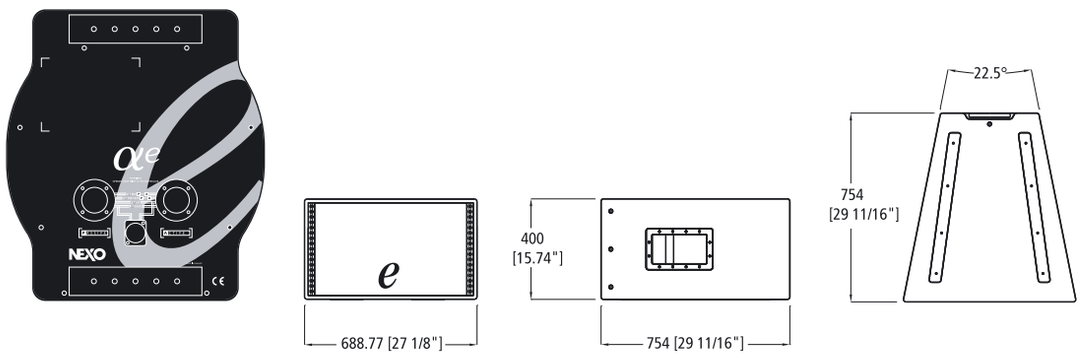
PRODUCT FEATURES	
Components	MF: 1x 10" (25 cm) 8Ω 3" voice coil driver + Dual Ring Phase Plug, Composite Horns HF: 1x 3" titanium diaphragm ceramic driver + Coaxial Mount Waveguide
Height x Width x Depth	400 x 689 x 754mm (15 3/4" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	45kg (99.2lbs)
Connectors	2x NL8MP 8-pole SPEAKON (In & Loop Thru) Passive: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF/HF), 4+ & 4- (NC) Active: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ &-3- (MF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON (to B1-18 & S2) ÔWiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
SYSTEM SPECIFICATIONS	**AlphaE-M with NX242 Digital TDcontroller**
Frequency Response	220Hz – 19kHz ±3dB
Usable Range @-6dB	180Hz – 20kHz ± 6dB
Sensitivity 1W @ 1m	107dB SPL Nominal
Nominal Peak SPL @ 1m	140dB Peak
Nominal Impedence	8Ω (7.5 min)
Recommended Amplifiers	Passive: 700 to 1000Watts; Active: 500 to 700Watts MF, 200 to 300Watts HF into 8Ω
SYSTEM OPERATION	
Electronic Controller	The AlphaE-M Mid/Hi must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The AlphaE-M Mid/Hi and B1-18 Bass can be used with or without the optional ALPHA S2 SubBass. Active three or four-way operation with the S2 is included in the NX242.
SHIPPING & ORDERING	
Ordering	AlphaE-M Mid/Hi carpet finished (without wheelboard) = Ref: AL.EM-C. AlphaE-M Mid/Hi painted (without wheelboard) = Ref: AL.EM-P.
Packaging	AlphaE-M Mid/Hi is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Front cover= Ref: AL.WLO.6.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.
[b] Sensitivity & Peak SPL data : will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.
[c] Directivity curves & data: 1/3 octave smoothed frequency response, normalised to On-Axis response. Data obtained by computer processing of off axis response curves.



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Alpha^e Series

ALPHA B1-18 BASS

The ALPHA B1-18 is an advanced high power Bass module that can be stacked or flown together in arrays with ALPHA M3, M8 and S2 and AlphaE- M cabinets. The B1-18 uses one NEXO specified high power 18" LF driver on an innovative internal flare component manufactured of rigid honeycomb composites. This high efficiency design delivers extremely low distortion, coherent bass output from 40Hz to 230Hz. The B1-18 is fully capable of operating without the S2 SubBass in applications where extreme LF performance is not required.

The AlphaE Series is an extension of NEXO's acclaimed ALPHA System; modular, compact, high power loudspeakers tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, AlphaE Series components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

- High power Bass module (140dB peak SPL @ 1m) using a composite curve flared horn loaded 1 x 18" 6Ω LF driver.
- High efficiency, lightweight design, usable frequency response 40Hz – 230Hz.
- Active operation with NX242 Digital TDcontroller ensures reliable, linear operation.
- High performance honeycomb composite curve construction, Baltic birch cabinet
- Available in dark grey carpet covering or textured black paint.
- Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.
- Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.

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PRODUCT FEATURES	
Components	1x 18" (46cm) 6Ω long excursion driver. Folded horn, composite curve
Height x Width x Depth	800 x 689 x 754mm (31 1/2" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 70kg(155lbs) With wheelboard: 79kg (175lbs)
Connectors	2x NL4MP 4-pole SPEAKON (In & Loop Thru) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
Fittings: Handles	2 Metal Bar Handles
Front finish	Acoustic foam on perforated steel grille (77% transparent)
Flying Points &	Crossbow Flying System cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links.
Fixed Installation	Crossbow flying tracks can also receive standard aircraft fittings.
SYSTEM SPECIFICATIONS	**ALPHA B1-18 with NX242 Digital TDcontroller**
Frequency Response [a]	40Hz – 230Hz ±3dB
Usable Range @-6dB [a]	38Hz – 600Hz
Sensitivity 1W @ 1m [b]	107dB SPL Nominal
Nominal Peak SPL @ 1m [b]	142dB Peak
Nominal Impedance	6Ω (4.7 min)
Recommended Amplifiers	900 to 1400Watts into 6Ω
SYSTEM OPERATION	
Electronic Controller	The ALPHA B1-18 must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The ALPHA B1-18 Bass can be used with or without the optional ALPHA S2 SubBass. Active four-way operation with the S2 is included in the NX242.
SHIPPING & ORDERING	
Ordering	ALPHA B1-18 carpet finished and ready to fly (without wheelboard) = Ref: AL.B118CF. ALPHA B1-18 painted and ready to fly (without wheelboard) = Ref: AL.B118-PF.
Packaging	ALPHA B1-18 is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Wheelboard = Ref: AL.WB1.3.

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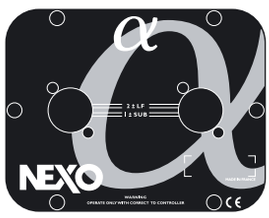
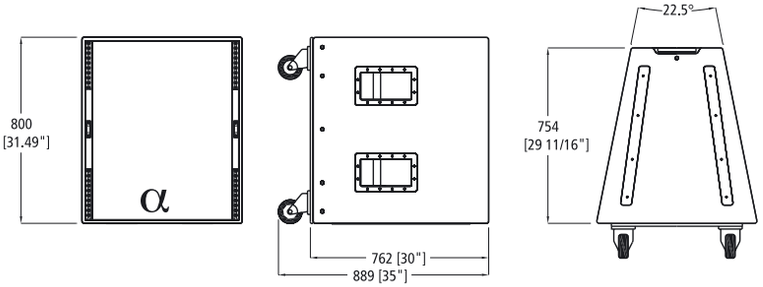
[b] Sensitivity & Peak SPL data : will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.





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